

Entrez PubMed Nucleotide Protein Genome Structure PMC Taxonomy Book

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☐ 1: [AL021711](#). *Arabidopsis thaliana*...[gi:5738363]

Links

LOCUS ATF13C5 119111 bp DNA linear PLN 10-MAR-2000  
 DEFINITION *Arabidopsis thaliana* DNA chromosome 4, BAC clone F13C5 (ESSA project).  
 ACCESSION AL021711  
 VERSION AL021711.2 GI:5738363  
 KEYWORDS .  
 SOURCE *Arabidopsis thaliana* (thale cress)  
 ORGANISM *Arabidopsis thaliana*  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; *Arabidopsis*.  
 REFERENCE 1 (bases 1 to 4778)  
 AUTHORS Bevan, M., Robben, J., Grymonprez, B., Volckaert, G., Bancroft, I., Mewes, H.W., Lemcke, K. and Mayer, K.F.X.  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 4495 to 119111)  
 AUTHORS Bevan, M., Pohl, T., Weizenegger, T., Bancroft, I., Mewes, H.W., Lemcke, K. and Mayer, K.F.X.  
 JOURNAL Unpublished  
 REFERENCE 3 (bases 1 to 119111)  
 AUTHORS EU *Arabidopsis* sequencing, project.  
 TITLE Direct Submission  
 JOURNAL Submitted (09-MAR-2000) MIPS, at the Max-Planck-Institut fuer Biochemie, Am Klopferspitz 18a, D-82152 Martinsried, FRG, E-mail: lemcke@mips.biochem.mpg.de, mayer@mips.biochem.mpg.de Project Coordinator: Mike Bevan, Molecular Genetics Department, Cambridge Laboratory, John Innes Centre, Colney Lane, NR4 7UJ Norwich, UK, E-mail: michael.bevan@bbsrc.ac.uk  
 COMMENT On Aug 18, 1999 this sequence version replaced gi:2832611. Information on performance of analysis and a more detailed annotation of this entry and other sequences of chromosomes 3, 4 and 5 can be viewed at: <http://www.mips.biochem.mpg.de/proj/thal/>.  
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GIQVAVKKLDDDEVLSDDDQVRKFHDELALLQRLRHPNIVQFLGAVTQSNPMMIVTEYL
PRGDLRELLKRGQLKPATAVRYALDIARNILRDDSGHLKVADFGVSKLVTVKEDKPF
TCQDISCRYIAPEVFTSEEYDTKADVFSFALIVQEMIEGRMPFAEKEDSEASEAYAGK
HRPLFKAPSKNYPHGLKTLIEECWHEKPAKRPTFREIIKRLESILHHMGHQRQWRMRP
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 Contains Prokaryotic membrane lipoprotein lipid attachment  
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 contains EST gb:Z25684, Z37674, AI992959.1, T46449"  
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 FHRYSILWTPTKIIFWVDDVP IREILRKEEMNGDYPQKPMSLYATIWDASSWATSGGK  
 FGVDTYTFSPFVSEFKDIALDGCNINCSVSDQFLMSNDYSTISPKQATAMRRFRERYMY  
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gene 76484..78990

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 Contains Putative AMP-binding domain signature AA209-220  
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Contains ATP/GTP-binding site motif A (P-loop)
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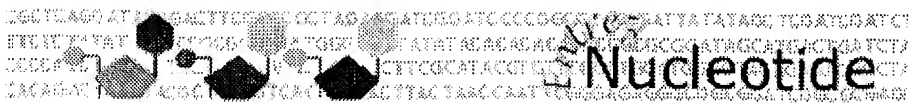
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File

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Feat

1: Z97335. Arabidopsis thaliana [gi:5280985]

Links

LOCUS ATFCOA 200576 bp DNA linear PLN 28-JUN-1999

DEFINITION Arabidopsis thaliana DNA chromosome 4, ESSA I FCA contig fragment No. 0.

ACCESSION Z97335

VERSION Z97335.2 GI:5280985

KEYWORDS .

SOURCE Arabidopsis thaliana (thale cress)

ORGANISM Arabidopsis thaliana

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE 1

AUTHORS Bevan, M., Stiekema, W., Murphy, G., Wambutt, R., Pohl, T., Terry, N., Kreis, M., Kavanagh, T., Entian, K. D., Rieger, M., James, R., Puigdomenech, P., Hatzopoulos, P., Obermaier, B., Duesterhoft, A., Jones, J., Palme, K., Ansorge, W., Delseny, M., Bancroft, I., Mewes, H. W., Schueller, C. and Chalwatzis, N.

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 200576)

AUTHORS EU Arabidopsis sequencing, project.

TITLE Direct Submission

JOURNAL Submitted (25-JUN-1999) MIPS, at the Max-Planck-Institut fuer Biochemie, Am Klopferspitz 18a, D-82152 Martinsried, FRG, E-mail: schuelle@mips.biochem.mpg.de, mayer@mips.biochem.mpg.de Project Coordinator: Mike Bevan, Molecular Genetics Department, Cambridge Laboratory, John Innes Centre, Colney Lane, NR4 7UJ Norwich, UK, E-mail: michael.bevan@bbsrc.ac.uk

COMMENT On Jun 30, 1999 this sequence version replaced gi:2244747. Information on performance of analysis and a more detailed annotation of this entry and other sequences of chromosomes 3, 4 and 5 can be viewed at: <http://www.mips.biochem.mpg.de/proj/thal/> this fragment has an overlap with ATFC1 at the 3' end.

FEATURES

Location/Qualifiers

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/number=3  
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 /number=3  
exon complement(19603..19719)  
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 /number=4  
intron complement(19720..19761)  
 /gene="dl3020c"  
 /number=4  
exon complement(19762..20123)  
 /gene="dl3020c"  
 /number=5  
misc feature 20514..20606  
 /note="EM\_ORG:CHSOPSBO Spinach plastid psbB operon with  
 genes for 10 kD phosphoprotein"  
gene 28588..31830  
 /gene="dl3025c"  
gene complement(join(28588..29003,29145..29555,29741..29985,  
 30426..30661,30705..31192,31237..31356,31719..31830))  
 /gene="dl3025c"  
CDS complement(join(28588..29003,29145..29555,29741..29985,  
 30426..30661,30705..31192,31237..31356,31719..31830))  
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 /note="weak similarity to F54E4.1, Caenorhabditis elegans"  
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 /db\_xref="UniProt/TreMBL:O23258"  
 /translation="MLKLDDGKPKENISQRWMASWSIFCKLHIGFVLVTASIGVPLD  
 RMTIGKAELYGQVGVRMFRKRTMQADPILREGAALVIYNNDKHVDEKGFPCHPQDKK  
 AAGTRAMFAPYISEDRLRLRVSSLLYVGVSVEIMQRHNESVEKQGGPSNRDDLTHRY  
 VRRLESIIRSTYELDEDDVSIISMWVESHQSHVFFFEFGSDTDPFSLGIQTEWQLQQ  
 MIRFGNCRLLASDSRFGTNTLKDDSQVYVLVYFQYPIHSLVVFDSSENKAI PVAWIIAP  
 RFSSGDAYRWMRALCNRVHAKDPSWKVAGFIVDDPFADI IAI RDVFQCPVLFSEFWRLR  
 HAWHKNI IKRCRETKTRVEISRHLGQAVDKISRRQGTATLFDSEFVDFVGSPEFVEYF  
 RSVWSPRIGAWTSALQSLPLASQETCAAMELYHYQLKCRLLNERDSEAYQRADWLVDK  
 LGTKVHSYFWLDEYSGKDNFARYWKEEWVSGLTSEFRKALSI PDSDVVISGMSAKITDE  
 CDGNEIHVVWNPQSQFGVCSCSWAEKGYIFSLAVSVEKQINALGYLQKSDANEGNLQK  
 EIAFSEPPSGKSLDESDLLDKHEGHGEVATDLDGGLSKMPMSCLRVCSGNAEDIISGS  
 EMEIGLSPGSTKAAEDVTSTVQNGTDSANENCERGA RLKI WAPENG VYE"  
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 /gene="dl3025c"  
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 /gene="dl3025c"  
 /number=2  
exon complement(29741..29985)  
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 /number=3  
intron complement(29986..30425)  
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 /number=3

exon complement (30426..30661)  
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 /number=4  
intron complement (30662..30704)  
 /gene="dl3025c"  
 /number=4  
exon complement (30705..31192)  
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 /number=5  
exon complement (31237..31356)  
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 /number=6  
intron complement (31357..31718)  
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 /number=6  
exon complement (31719..31830)  
 /gene="dl3025c"  
 /number=7  
gene 35411..39561  
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gene complement (join(35411..36565,36894..37147,38153..38288,  
 38378..38518,38602..38855,38904..39290,39384..39561))  
 /gene="dl3030c"  
CDS complement (join(35411..36565,36894..37147,38153..38288,  
 38378..38518,38602..38855,38904..39290,39384..39561))  
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 /note="similarity to heat shock transcription factor HSF30  
 Contains HSF-type DNA-binding domain signature  
 [LPTYFKHNNFSSFIRQLNTYGFRKI]"  
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 /protein\_id="CAB10177.1"  
 /db\_xref="GI:2244754"  
 /db\_xref="GOA:O23259"  
 /db\_xref="UniProt/TrEMBL:O23259"  
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 SVLSRRWRNVWRYVPGFNSESCLOKFKLTVNWYDDVQLETVHFTEWFNAVVKRKVQHL  
 HILDKTWGRDEVVIPPFTVFTCGSLISLNLYDVLPNREFVSLPSLKVIVLDAVVFDED  
 FAFEMLVSGCPVLESLSVNKINLNDISENDDYLEVVIDAPRLHYLKLNDKRTASFIM  
 KNHGSLLKADIDFVFNLGSEYMFDPNYLPTRHIIRDFVLGLSGVKDMISSSTLQVIY  
 DYSRCEQLPLFRNVSLRVEFADYRWEMLPIFLESCPNLKSIVLGFSPPGKEGANIL  
 PGPRRFLTSLEYVKIAKPMMAEASEIKLKLNVSTMNGALGNSSASVSGGEGAGGPAPF  
 LVKTYEMVDDSSTDQIVSWSANNNSFIVWNHAEFSRLLLPTYFKHNNFSSFIRQLNTY  
 GFRKIDPERWEFLNDDFIKDQKHLKNIHRRKPIHSHSHPPASSTDQERAVLQEQMDK  
 LSREKAAIEAKLLKFKQKQVVAKHQFEEMTEHVDDMENRQKKLLNFLETAIRNPTFVK  
 NFGKKVEQLDISAYNKKRRLPEVEQSKPPSEDSHLDNSSGSSRRRESGNIFHQNFNKL  
 RLELSPADSDMNMVSHSIQSSNEEGASPKGILSGGDPNTTLTKREGLPFAPEALELAD  
 TGTCPRLLLLNDNTRVETLQQLTSSEETDGSFSCHLNLTASAPLPDKTASQIAKTT  
 LKSQELNFNSIETSASEKNRGRQEIIVGGSQANAAPPARVNDVFWEQFLTERPGSSDN  
 EEASSTYRGNPYEEQEEKRNGSMMLRNNTKNIEQLTL"  
exon complement (35411..36565)  
 /gene="dl3030c"  
 /number=1  
intron complement (36566..36893)  
 /gene="dl3030c"  
 /number=1  
exon complement (36894..37147)

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/ gene="dl3030c"
/ number=2
exon complement (38153..38288)
/ gene="dl3030c"
/ number=3
intron complement (38289..38377)
/ gene="dl3030c"
/ number=3
exon complement (38378..38518)
/ gene="dl3030c"
/ number=4
intron complement (38519..38601)
/ gene="dl3030c"
/ number=4
exon complement (38602..38855)
/ gene="dl3030c"
/ number=5
intron complement (38856..38903)
/ gene="dl3030c"
/ number=5
exon complement (38904..39290)
/ gene="dl3030c"
/ number=6
intron complement (39291..39383)
/ gene="dl3030c"
/ number=6
exon complement (39384..39561)
/ gene="dl3030c"
/ number=7
gene 42311..43852
/ gene="dl3035w"
CDS join (42311..42901, 42950..43406, 43452..43852)
/ gene="dl3035w"
/ note="weak similarity to cytochrome P450, human"
/ codon_start=1
/ product="hypothetical protein"
/ protein_id="CAB10178.1"
/ db_xref="GI:2244755"
/ db_xref="GOA:O23260"
/ db_xref="UniProt/TREMBL:O23260"
/ translation="MEKPISITTGKFRNTNNNNHNNVWFVPLFFILCFVLLCFDYSA
LFTDTDETAFSIPDVTQKSTSSEFTKDDNFSRFPDDPSPDSSCSGRYIYVHELPHYRFN
GDLLDNCFKITRGTEKDICPYIENYGFGPVIKNYENVLLKQSWFTTNQFMLEVI FHNK
MINYRCLTNDSSLASAVFVPFYAGLDMSRYLWGFNITKEWGRMSGRDHFLVSGRIAWD
ERRQTDNESDWGSKLRFLEPESRNMSMLSIESSSWKNDYAI PYPCTCFHPRSVDEIVEWQ
ELMRSRKREYLFTFAGAPRPEYKDSVRGKI IDECLESKKQCYLLDCNYGNVCDNPVN
VMKVERNSVFCLQPPGCI PVFFHPGTAYA QYKWHLPKNHSSYSVYLPVKDVKEWNIKI
KERLIEIPEERVVRLREEVIRLIPKVYADPKYGS DGS EDAFELAVKGMLERIEEVRE
MMRQKGKDGSDGFDDRDYKYTFSPYEEPQVLA"
exon 42311..42901
/ gene="dl3035w"
/ number=1
intron 42902..42949
/ gene="dl3035w"
/ number=1
exon 42950..43406
/ gene="dl3035w"

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intron      43407..43451
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exon        43452..43852
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            /number=3
gene        48743..50124
            /gene="dl3040w"
CDS         join(48743..48871,48963..49025,49109..49175,49264..49364,
            49454..49498,49582..49620,49672..49863,49951..50124)
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            /note="similar to K01A11.2 - Caenorhabditis elegans"
            /codon_start=1
            /product="hypothetical protein"
            /protein_id="CAB10179.1"
            /db_xref="GI:2244756"
            /db_xref="UniProt/TREMBL:O23261"
            /translation="MATKPTFQLFSSSQSGSLGLGLDSSEPALPPPPPPVEVLSEFV
            SSSTDFEVDKLTIGEITLLKGRVSTKEVFGLPNSDLVPGVYEGGLKLWEGSIDLVKAL
            EKESQTGNLSFSGKRVLELGCGHALPGIYACLKGS DAVHFQDFNAESSSVSVSETEVR
            FFAGEWSEVHQVLPLVNSDGETNKKGGYDIIILMAETIYSISAQKSQYELIKRCLAYPD
            GAVYMAAKKYYFGVGGGTRQFLSMIEKDGMVYSMMYIKQQLHCSFSTMI I"
exon        48743..48871
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            /number=1
intron      48872..48962
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            /number=1
exon        48963..49025
            /gene="dl3040w"
            /number=2
intron      49026..49108
            /gene="dl3040w"
            /number=2
exon        49109..49175
            /gene="dl3040w"
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intron      49176..49263
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            /number=3
exon        49264..49364
            /gene="dl3040w"
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intron      49365..49453
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exon        49454..49498
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intron      49499..49581
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            /number=5
exon        49582..49620
            /gene="dl3040w"
            /number=6
intron      49621..49671
            /gene="dl3040w"
            /number=6
exon        49672..49863

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/ gene="dl3040w"
/ number=7
intron 49864..49950
/ gene="dl3040w"
/ number=7
exon 49951..50124
/ gene="dl3040w"
/ number=8
gene 50902..51255
/ gene="dl3045c"
gene complement(50902..51255)
/ gene="dl3045c"
CDS complement(50902..51255)
/ gene="dl3045c"
/ note="predicted"
/ codon_start=1
/ product="hypothetical protein"
/ protein_id="CAB10180.1"
/ db_xref="GI:2244757"
/ db_xref="UniProt/TREMBL:O23262"
/ translation="MEIKPSRIFSTITIFFLCLLLAHVTSKASSSSSLCNGSVAECSSM
VETEEMSVIMESWSSQRLTEEQAHKLSYGALRRNPACDGGKRGESYSTQCLPPPSNP
YSRGCSKHRYRCGRDS"
exon complement(50902..51255)
/ gene="dl3045c"
/ number=1
gene 53262..53597
/ gene="dl3050c"
gene complement(53262..53597)
/ gene="dl3050c"
CDS complement(53262..53597)
/ gene="dl3050c"
/ note="predicted"
contains EST gb:716565"
/ codon_start=1
/ product="hypothetical protein"
/ protein_id="CAB10181.1"
/ db_xref="GI:2244758"
/ db_xref="UniProt/TREMBL:O23263"
/ translation="MEYYTFTENDEERVSRNHHVNNTWVKERYESDEEDGEVKNLILK
EDEETKDMVTSPSGERMMITSKVRYLTYGALKHDTAASAASGGGGRALPHPSNKYNRG
HPKYYRCRG"
exon complement(53262..53597)
/ gene="dl3050c"
/ number=1
gene 56013..58057
/ gene="dl3055c"
gene complement(join(56013..56294,56381..56653,56745..56852,
56957..57188,57271..57498,57589..57784,57904..58057))
/ gene="dl3055c"
CDS complement(join(56013..56294,56381..56653,56745..56852,
56957..57188,57271..57498,57589..57784,57904..58057))
/ gene="dl3055c"
/ note="strong similarity to selenium-binding protein,
hepatic, mouse"
contains EST gb:416465"
/ codon_start=1
/ product="selenium-binding protein like"
/ protein_id="CAB10182.1"
/ db_xref="GI:2244759"

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/db_xref="UniProt/Swiss-Prot:O23264"
/translation="MATETEVVAPVTVSNGGSKGCCYGGPGYATPLAAMSGPSEKLI
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DASVDRRYLVLPISLGRIYAITKENPRAPSLYKYVDPKEIADKTGLAFPHTAHCLA
TGEILVSCLGDEEGNAKGNGFLLDSDFNINRWEKPGHSPLYGYDFWYQPRHKTMIS
TSWGAPKAFSGKGNLQHVADGLYGSHLHVYSWPGGEIKQLIDLGPGLLEIRFLHD
PSKDTGFVGSALSSNMIRFFKNSDETWSHEVVISVKPLKVENWILPEMPGLITDFLIS
LDDRFIYFVNWHLGDIRQYNIEDPKNPVLTGQIWWGGLLQKGSFVKAVGEDGNTFQFE
VPQIKGKSLRGGPQMIQLSLDGKRLYATNSLFSAWDRQFYFEIMEKGSIIQIDVDTE
KGGLTINPDFVDFGDEPDGPSLAHEMRYPPGGDCTSDIWI"

exon      complement(56013..56294)
          /gene="dl3055c"
          /number=1
intron    complement(56295..56380)
          /gene="dl3055c"
          /number=1
exon      complement(56381..56653)
          /gene="dl3055c"
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intron    complement(56654..56744)
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          /number=2
exon      complement(56745..56852)
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          /number=3
intron    complement(56853..56956)
          /gene="dl3055c"
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exon      complement(56957..57188)
          /gene="dl3055c"
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intron    complement(57189..57270)
          /gene="dl3055c"
          /number=4
exon      complement(57271..57498)
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intron    complement(57499..57588)
          /gene="dl3055c"
          /number=5
exon      complement(57589..57784)
          /gene="dl3055c"
          /number=6
intron    complement(57785..57903)
          /gene="dl3055c"
          /number=6
exon      complement(57904..58057)
          /gene="dl3055c"
          /number=7
gene      58583..60720
          /gene="dl3061c"
gene      complement(join(58583..58864,58952..59196,59303..59446,
59538..59962,60043..60238,60576..60720))
          /gene="dl3061c"
CDS       complement(join(58583..58864,58952..59196,59303..59446,
59538..59962,60043..60238,60576..60720))
          /gene="dl3061c"
          /note="a non-consensus splicing site was generated
strong similarity to selenium-binding protein, hepatic,
mouse"

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/product="selenium-binding protein like"
/protein_id="CAB46000.1"
/db_xref="GI:5280986"
/db_xref="GOA:O23265"
/db_xref="UniProt/TREMBL:O23265"
/translation="MATETVLATAVSNKGSKGCKSGPGYATPLAAMAGPREKLIYVT
ALYSGTGRDKPDYLATVDVDPSSPTFSSVIHRLKMPYIGDELHHTGWNSSSCHGDAS
ADRRYLVLPLGLISGRIYAIIDTKTDPKAPSLYKVVEPKEIAEKTGLAFPHTSHCLASGD
MLVSCLDGKEGNAKGNGFLLLDSDFNVKS RWDKPGHGPLFGYDFWYQPRFKTMISTW
GAPKAFSKGFNLQHVADGLYGSHLHIYQWPEGEMKQITYWVFVVMWLQIRFLHDPSKD
TGYVGSALSSNMIRFFKNSDDTWSHEAIENWILPEMPGLITDFLISLDDRFFYFVNWL
HGDIRQYNIEDPKNPVLTGQIWVGGLLQKGSPYKAVGEDGNTYQFDVPQIKGKSLRAG
PQMIQLSLDGKRLYATNSLFSAWDRQFYPEIMEKGSHIIQIDVDTDKGGLTLNPDDFFV
DFGDEPDGPALAHMRYPPGGDCTSDIWI"
exon complement(58583..58864)
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/gene="dl3061c"
/number=2
intron complement(59197..59302)
/gene="dl3061c"
/number=2
exon complement(59303..59446)
/gene="dl3061c"
/number=3
intron complement(59447..59537)
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exon complement(59538..59962)
/gene="dl3061c"
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intron complement(59963..60042)
/gene="dl3061c"
/number=4
exon complement(60043..60238)
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/gene="dl3061c"
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exon complement(60576..60720)
/gene="dl3061c"
/number=6
gene 61404..65452
/gene="dl3066c"
gene complement(join(61404..61467,61541..62548,62591..63331,
64429..64583,65360..65452))
/gene="dl3066c"
CDS complement(join(61404..61467,61541..62548,62591..63331,
64429..64583,65360..65452))
/gene="dl3066c"
/note="similar to hypothetical protein - Arabidopsis
thaliana"
/codon_start=1
/product="hypothetical protein"

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/protein_id="CAB46001.1"
/db_xref="GI:5280987"
/db_xref="UniProt/TreMBL:O23266"
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NGFRKSIVVRRKKLLFSLTFIFMFKLFVFFDFGSYFSRMNRTLTTAKALHAHIVKLG
VQCCPLANTLVNVYGKCGAASHALQVFDEMPHRDHIWASVLTALNQANLSGKTLVSV
SSVGSSSGLRPDDFVFSALVKACANLGSIDHGRQVHCHFIVSEYANDEVVKSSLVDMY
AKCGLLSAKAVFDSIRVKNTISWTAMVSGYAKSGRKEEALELFRILPVKNLYSWTAL
ISGFVQSGKGLEAFSVFTEMRRERVDIILDPLVLSSIVGACANLAASIAGRQVHGNA
IMYAKCSDVIAAKDIFSRMRHRDVVSWTSLIVGMAQHGOAEKALALYDDMVSHGVKPN
EVTTFVGLIYACSHVGFVEKGRELFQSMTKDYGIRPSLQHYTCLLDLLGRSGLLDEA
ENLIHTMPFPPEPTWAALLSACKRQGRGQMGIADHLVSSFKLKDPSTYILLSNIYAS
ASLWGKVSEARRKLGEMEVKDPGHSSVEVRKETEVFYAGETSHPLKEDIFRLLKKLE
EEMRIRNGYVPDTSWILHDMDEQEKEKLLFWHSERSAVAYGLLKAVPGTPRIVKNLR
VCGDCHVVLKHISEITEREIIVRDATRYHHFKGGKCSNDFCNIGHAKSIFILNKETI
KWVS"
exon      complement(61404..61467)
           /gene="dl3066c"
           /number=1
intron    complement(61468..61540)
           /gene="dl3066c"
           /number=1
exon      complement(61541..62548)
           /gene="dl3066c"
           /number=2
intron    complement(62549..62590)
           /gene="dl3066c"
           /number=2
exon      complement(62591..63331)
           /gene="dl3066c"
           /number=3
intron    complement(63332..64428)
           /gene="dl3066c"
           /number=3
exon      complement(64429..64583)
           /gene="dl3066c"
           /number=4
intron    complement(64584..65359)
           /gene="dl3066c"
           /number=4
gene      65297..66050
           /gene="dl3070w"
CDS       join(65297..65483,65782..66050)
           /gene="dl3070w"
           /note="strong similarity to major latex protein type 1,
Arabidopsis thaliana
contains EST gb:948081"
           /codon_start=1
           /product="major latex protein like"
           /protein_id="CAB10185.1"
           /db_xref="GI:2244762"
           /db_xref="UniProt/TreMBL:O23267"
           /translation="MATSGTYVTEVPLKGSAAEKHYKRWNRNENHLFPDAIGHHIQGVTV
HDGEWDSHGALKIWNYYTLTGKPEMFKERREIDENMAVT FVGLEGHVMEQLKVYDTIL
QFIQKSPDDIVCKITMTWEKRADDSPEPSNYMKLVKSLAADMDAHVLKA"
exon      65297..65483
           /gene="dl3070w"
           /number=1
exon      complement(65360..65452)
           /gene="dl3066c"

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/number=5  
intron 65484..65781  
 /gene="dl3070w"  
 /number=1  
exon 65782..66050  
 /gene="dl3070w"  
 /number=2  
gene 70014..75877  
 /gene="dl3075c"  
gene complement(join(70014..70106,70202..70259,70335..70450,  
 70549..70628,70728..70887,71046..71183,71517..71597,  
 71699..71752,71835..71993,72105..72210,72334..72401,  
 72608..72757,72891..73006,73078..73286,73740..73812,  
 74410..74524,75126..75311,75743..75877))  
 /gene="dl3075c"  
CDS complement(join(70014..70106,70202..70259,70335..70450,  
 70549..70628,70728..70887,71046..71183,71517..71597,  
 71699..71752,71835..71993,72105..72210,72334..72401,  
 72608..72757,72891..73006,73078..73286,73740..73812,  
 74410..74524,75126..75311,75743..75877))  
 /gene="dl3075c"  
 /note="strong similarity to AMP-binding protein - Brassica  
 napus"  
 /codon\_start=1  
 /product="AMP-binding protein"  
 /protein\_id="CAB10186.1"  
 /db\_xref="GI:2244763"  
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 /translation="MASTSSLGPSTLLSYGSPSRQFPDFGFRLLISGHESVRI PSFRRF  
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 LTYKQLEQEILDFAEGLRVLGKKADEKIALFADNSCRWLVSDDQAVNVVRGSRSSVEE  
 LLQIYRHSESAIVVDNPEFFNRIAESFTSKASLRFLILLWGEKSSLVTQGMQIPVYS  
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148805..148992,149144..149189,149365..149412,
149508..149610,149693..149906,150195..150314,
150543..150691,151256..151411,151589..151646,
152089..152177,152273..152405,152494..152661))
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152089..152177,152273..152405,152494..152661))
/ gene="dl3145c"
/ note="this enzyme converts phytoene into zeta-carotene
via the intermediary of phytofluene by the symmetrical
introduction of two double bonds at the c-11 and c-11'
positions of phytoene
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desaturase)"
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LSMQCILIALNRFLQEKHGSKMAFLDGNPPERLCMPVVDHIRSLGGEVQLNSRIKKIE
LNDDGTVKSFLLTNGSTVEGDAYVFAAPVDILKLLLPDPWKEIPYFKKLDKLVGPVI
NVHIWFDRKCLKNTYDHLFSSRNLLSVYADMSLTCKEYYDPNRSMLLVFAPAEWIS
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/ number=2
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exon complement (148805..148992)
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<u>exon</u>	complement (149365..149412) /gene="dl3145c" /number=5
<u>intron</u>	complement (149413..149507) /gene="dl3145c" /number=5
<u>exon</u>	complement (149508..149610) /gene="dl3145c" /number=6
<u>intron</u>	complement (149611..149692) /gene="dl3145c" /number=6
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<u>intron</u>	complement (149907..150194) /gene="dl3145c" /number=7
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<u>intron</u>	complement (151647..152088) /gene="dl3145c" /number=11
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<u>intron</u>	complement (152178..152272) /gene="dl3145c" /number=12
<u>exon</u>	complement (152273..152405) /gene="dl3145c" /number=13

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            /note="32bp tct tandem repeat"
gene         153904..156046
            /gene="dl3150w"
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            154711..154822,154901..155190,155529..155636,
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            RRRDGOISSSLVSSSDPTTIHPTDLVNLRLSAISHVEHQNSNPCSPGSMTPSPVSG
            HSSIPADSNNGSRISPGPSPSRSSQSPKSPEASSLPEAIKSKLAAASAKYKESISKSK
            QGLKEKLLARNNSVKELSKGVQREMNAGIAGVARMIERMDFSSKRFGGSAHVSTSTAT
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intron       154439..154547
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exon         154548..154610
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intron       154611..154710
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exon         154711..154822
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intron       155191..155528
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exon         155529..155636
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 160369..160452,160548..160624,160779..161022))  
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 160369..160452,160548..160624,160779..161022))  
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 VLGHNDPLFRRAQLKALVSIHGEAAGKGGELTHDETTIISGALDLTEKTAQEAMTPIE  
 STFSLDVNSKLDVRPANMPYDIILNEFQKGSSHMAAVVKVKGKSKGHPSTLHEENSGE  
 SNVSSNSELTAPELLLKREGNHDVIVRIDKANGQSFISEAGRQGFSTSEEIEDGDE  
 EIVDETDEYIDVHKRIRVATVAAVAISLARAPSGRRLGPKGSGGPKTPKASSTPKP  
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exon complement(160779..161022)  
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 163974..164045,164162..164245,164312..164470,  
 164579..164662,164757..164833,164919..165165))  
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 164579..164662,164757..164833,164919..165165))  
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 LMTLCYPIAFPIGKVNIVCLVKNVLECSLI LLDLVLGHNDALFRRALQKALVSIHSQEA  
 GKGGELTHDETTIISGALDLTEKTAQEAMTPPIESTFSLDVNSKLDWEAMGKILARGHS  
 RVPVYSGNPKNVIGLLLVMLLT LILHVS MVAYHVSANSNQEI VLF SRVPADMP LYDIL  
 NEFQKGSSHMAAVVKVKGSKVPPSTLLEEHTDESNDSDLTAPLLL KREGNHDNVI VT  
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 169880..170604,170713..171129))  
 /gene="dl3165c"  
 /note="weak similarity to ribosomal protein L8, cytosolic,  
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 /codon\_start=1  
 /product="hypothetical protein"

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SSNNADDQDMATFWGNAIEEEKTVIKSGKEETFTSDRVVAPSWGPEFEDIMTLSEHEE
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175002..175484,176327..176653))
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SSDGRVIVYDDSSKKGATKVTIKDKKLEKEVIEAMTVGFLRDGLKFYLSYRSSDHQP
VITYETSNPKLENLTIHLPVPTGTKIHNLMAMSSIPVQDKDWVGVKLSGSRINPLS
SLMFSKRDQRFYIPSYGGNYLCYLDLNSKEGDDHFNRSRQENGQPSFIDLDYENLPESV
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gene 176409..179085  
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 NDGKCWKFCMLVAKSGVLCIGSIQIDGQKHTAPWIPEDNSICCKEHPSVGRCLPNIDD  
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 FSR SHELELQHQS KYTISGINIFRFLVKQINQIFHQVAHIAGDDNRPSVRETRTVQRN  
 SGHITRTRTWKSSDVPMLPYTGWVFVSRNVSRIFYWLQIASAFASIFISTIQLIKQDY  
 GGNDLKPKSTNLHAAALTFYSLALAEALLFLVEKAYWEYMISSVIHILEKVNEECGLER  
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185309..185407,185652..185744,185797..185980,  
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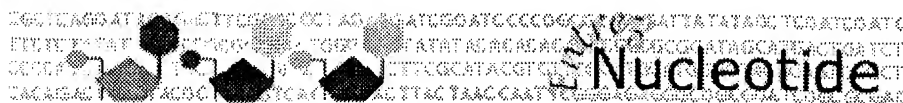
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Links

LOCUS ATU53501 37570 bp DNA linear PLN 06-MAY-1996

DEFINITION Arabidopsis thaliana chromosome I cosmid g8261 DNA (cytosine-5-) methyltransferase, zinc finger protein 1, nucleoporin 98, poly A+ RNA export protein, plasma membrane ATPase 2, and serine/threonine protein kinase genes, complete cds.

ACCESSION U53501

VERSION U53501.1 GI:1297184

KEYWORDS .

SOURCE Arabidopsis thaliana (thale cress)

ORGANISM Arabidopsis thaliana

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE 1 (bases 1 to 37570)

AUTHORS Goodman,H.M., Gallant,P., Keifer-Higgins,S., Rubenfield,M. and Church,G.M.

TITLE A 37.5 Kb sequence from Arabidopsis thaliana chromosome I

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 37570)

AUTHORS Goodman,H.M., Gallant,P., Keifer-Higgins,S., Rubenfield,M. and Church,G.M.

TITLE Direct Submission

JOURNAL Submitted (02-APR-1996) John Morris, Molecular Biology, Massachusetts General Hospital/Harvard Medical School, 50 Blossom St, Boston, MA 02114, USA

FEATURES Location/Qualifiers

source

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